Vassilis George Kaburlasos

List of Publications by Year
in descending order

73 papers	1,867 citations	257450 24 h-index	276875 41 g-index
78 all docs	78 docs citations	78 times ranked	892 citing authors

#	Article	IF	Citations
1	Robotics and information technologies in education: four countries from Alpe-Adria-Danube Region survey. International Journal of Technology and Design Education, 2022, 32, 749-771.	2.6	7
2	Social Robots for Pedagogical Rehabilitation. , 2022, , 800-820.		0
3	Behavioral Data Analysis of Robot-Assisted Autism Spectrum Disorder (ASD) Interventions Based on Lattice Computing Techniques. Sensors, 2022, 22, 621.	3.8	7
4	Lattice Computing: A Mathematical Modelling Paradigm for Cyber-Physical System Applications. Mathematics, 2022, 10, 271.	2.2	6
5	Towards Robot-Assisted Therapy for Children With Autismâ€"The Ontological Knowledge Models and Reinforcement Learning-Based Algorithms. Frontiers in Robotics and AI, 2022, 9, 713964.	3.2	4
6	A Non-Destructive Method for Grape Ripeness Estimation Using Intervalsâ€™ Numbers (INs) Techniques. Agronomy, 2022, 12, 1564.	3.0	3
7	An Autonomous Grape-Harvester Robot: Integrated System Architecture. Electronics (Switzerland), 2021, 10, 1056.	3.1	29
8	Brain Signals Classification Based on Fuzzy Lattice Reasoning. Mathematics, 2021, 9, 1063.	2.2	4
9	Time-Series of Distributions Forecasting in Agricultural Applications: An Intervalsâ€™ Numbers Approach. Engineering Proceedings, 2021, 5, 12.	0.4	3
10	Social Robots in Special Education: A Systematic Review. Electronics (Switzerland), 2021, 10, 1398.	3.1	32
11	Estimating Children Engagement Interacting with Robots in Special Education Using Machine Learning. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	8
12	Time-Series of Distributions Forecasting in Agricultural Applications: An Intervalsâ€™ Numbers Approach. Engineering Proceedings, 2021, 5, 12.	0.4	3
13	Grape stem detection using regression convolutional neural networks. Computers and Electronics in Agriculture, 2021, 186, 106220.	7.7	26
14	An Overview of Cooperative Robotics in Agriculture. Agronomy, 2021, 11, 1818.	3.0	68
15	Machine Vision for Ripeness Estimation in Viticulture Automation. Horticulturae, 2021, 7, 282.	2.8	19
16	A Software Toolbox for Behavioral Analysis in Robot-Assisted Special Education. , 2021, , .		0
17	A Review of the State-of-Art, Limitations, and Perspectives of Machine Vision for Grape Ripening Estimation. Engineering Proceedings, 2021, 9, .	0.4	2
18	Granule-Based-Classifier (GbC): A Lattice Computing Scheme Applied on Tree Data Structures. Mathematics, 2021, 9, 2889.	2.2	8

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19	Yield Estimation in Vineyards Using Intervalsâ€™ Numbers Techniques. , 2021, , .		2
20	WINkNN: Windowed Intervalsâ€™ Number kNN Classifier for Efficient Time-Series Applications. Mathematics, 2020, 8, 413.	2.2	12
21	Distance Special Education Delivery by Social Robots. Electronics (Switzerland), 2020, 9, 1034.	3.1	21
22	Navigation Route Mapping for Harvesting Robots in Vineyards Using UAV-based Remote Sensing. , 2020, , .		3
23	On Measuring Engagement Level During Child-Robot Interaction in Education. Advances in Intelligent Systems and Computing, 2020, , 3-13.	0.6	22
24	Semantic Segmentation of Vineyard Images Using Convolutional Neural Networks. Proceedings of the International Neural Networks Society, 2020, , 292-303.	0.6	6
25	Head Pose Estimation Using Lattice Computing Techniques. , 2020, , .		2
26	Identifying Linguistic Cues; Towards Developing Robots With Empathy in Autism Interventions. Journal of Clinical Medicine of Kazakhstan, 2020, 2, 27-33.	0.3	4
27	Forward Kinematic Analysis of JACO2 Robotic Arm Towards Implementing a Grapes Harvesting Robot. , 2020, , .		2
28	Structured Human-Head Pose Representation for Estimation Using Fuzzy Lattice Reasoning (FLR). , 2020, , .		0
29	Harvest Crate Detection for Grapes Harvesting Robot Based on YOLOv3 Model. , 2020, , .		4
30	Machine Vision Systems in Precision Agriculture for Crop Farming. Journal of Imaging, 2019, 5, 89.	3.0	152
31	Time Series Classification in Cyber-Physical System Applications by Intervalsâ€™ Numbers Techniques. , 2019, , .		6
32	Toward Robot-Assisted Psychosocial Intervention for Children with Autism Spectrum Disorder (ASD). Lecture Notes in Computer Science, 2019, , 484-493.	1.3	9
33	Social Robots for Pedagogical Rehabilitation. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2019, , 1-21.	0.5	15
34	Modeling in Cyber-Physical Systems by Lattice Computing Techniques: The Case of Image Watermarking Based on Intervalsâ€™ Numbers. , 2018, , .		4
35	Social Robots in Special Education: Current Status and Future Challenges. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1P1-A15.	0.0	8
36	Learning Distributions of Image Features by Interactive Fuzzy Lattice Reasoning in Pattern Recognition Applications. IEEE Computational Intelligence Magazine, 2015, 10, 42-51.	3.2	41

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37	A lattice computing approach to Alzheimerâ€™s disease computer assisted diagnosis based on MRI data. Neurocomputing, 2015, 150, 37-42.	5.9	54
38	Lattice computing (LC) meta-representation for pattern classification. , 2014, , .		6
39	FCknn: A granular knn classifier based on formal concepts. , 2014, , .		3
40	gsaINknn: A GSA optimized, lattice computing knn classifier. Engineering Applications of Artificial Intelligence, 2014, 35, 277-285.	8.1	21
41	Fuzzy Inference System (FIS) Extensions Based on the Lattice Theory. IEEE Transactions on Fuzzy Systems, 2014, 22, 531-546.	9.8	54
42	A Lattice-Computing ensemble for reasoning based on formal fusion of disparate data types, and an industrial dispensing application. Information Fusion, 2014, 16, 68-83.	19.1	31
43	A granular, parametric KNN classifier. , 2013, , .		5
44	Lattice Computing Extension of the FAM Neural Classifier for Human Facial Expression Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1526-1538.	11.3	54
45	Distance and similarity measures between intuitionistic fuzzy sets: A comparative analysis from a pattern recognition point of view. Pattern Recognition Letters, 2013, 34, 1609-1622.	4.2	166
46	Fuzzy Lattice Reasoning (FLR) Extensions to Lattice-Valued Logic. , 2012, , .		1
47	A novel distance measure of intuitionistic fuzzy sets and its application to pattern recognition problems. International Journal of Intelligent Systems, 2012, 27, 396-409.	5.7	132
48	Binary Image 2D Shape Learning and Recognition Based on Lattice-Computing (LC) Techniques. Journal of Mathematical Imaging and Vision, 2012, 42, 118-133.	1.3	24
49	Evaluation of shape descriptors for shape-based image retrieval. IET Image Processing, 2011, 5, 493.	2.5	92
50	Piecewise-linear approximation of non-linear models based on probabilistically/possibilistically interpreted intervalsâ€™ numbers (INs). Information Sciences, 2010, 180, 5060-5076.	6.9	49
51	Granular Fuzzy Inference System (FIS) Design by Lattice Computing. Lecture Notes in Computer Science, 2010, , 410-417.	1.3	2
52	A granular extension of the fuzzy-ARTMAP (FAM) neural classifier based on fuzzy lattice reasoning (FLR). Neurocomputing, 2009, 72, 2067-2078.	5.9	40
53	Fuzzy lattice reasoning (FLR) type neural computation for weighted graph partitioning. Neurocomputing, 2009, 72, 2121-2133.	5.9	21
54	Neural/Fuzzy Computing Based on Lattice Theory. , 2009, , 1238-1243.		1

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55	Personalized multi-student improvement based on Bayesian cybernetics. Computers and Education, 2008, 51, 1430-1449.	8.3	8
56	Bayesian Decision Theory for Multiâ€Category Adaptive Testing. , 2008, , .		0
57	An architecture for an adaptive assessment tool. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	12
58	Novel Fuzzy Inference System (FIS) Analysis and Design Based on Lattice Theory. IEEE Transactions on Fuzzy Systems, 2007, 15, 243-260.	9.8	25
59	Fuzzy lattice reasoning (FLR) classifier and its application for ambient ozone estimation. International Journal of Approximate Reasoning, 2007, 45, 152-188.	3.3	108
60	Granular Enhancement of Fuzzy ART/SOM Neural Classifiers Based on Lattice Theory. , 2007, , 3-23.		11
61	GRANULAR GRAPH CLUSTERING IN THE WEB. , 2007, , 1639-1645.		5
62	INDUCTION OF CLASSIFICATION RULES FROM HISTOGRAMS. , 2007, , 1646-1652.		6
63	Unified Analysis and Design of ART/SOM Neural Networks and Fuzzy Inference Systems Based on Lattice Theory. , 2007, , 80-93.		2
64	Novel fuzzy inference system (FIS) analysis and design based on lattice theory. Part I: Working principles. International Journal of General Systems, 2006, 35, 45-67.	2.5	17
65	Granular self-organizing map (grSOM) for structure identification. Neural Networks, 2006, 19, 623-643.	5.9	34
66	Work in Progress: Practical Computerized Adaptive Assessment based on Bayesian decision theory. , 2006, , .		1
67	Granular self-organizing map (grSOM) neural network for industrial quality control. , 2005, , .		1
68	A Genetic Based Approach to the Type I Structure Identification Problem. Informatica, 2005, 16, 365-382.	2.7	21
69	FINs: Lattice Theoretic Tools for Improving Prediction of Sugar Production From Populations of Measurements. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1017-1030.	5.0	35
70	A Comparison of Word- and Sense-Based Text Categorization Using Several Classification Algorithms. Journal of Intelligent Information Systems, 2003, 21, 227-247.	3.9	71
71	Clustering and classification in structured data domains using Fuzzy Lattice Neurocomputing (FLN). IEEE Transactions on Knowledge and Data Engineering, 2001, 13, 245-260.	5.7	40
72	Learning in the framework of fuzzy lattices. IEEE Transactions on Fuzzy Systems, 1999, 7, 422-440.	9.8	36

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73	Fuzzy lattice neural network (FLNN): a hybrid model for learning. IEEE Transactions on Neural Networks, 1998, 9, 877-890.	4.2	87